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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/930,687	08/16/2001	Lou F. Del Nin		1592

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Lou F. Del Nin
Suite # 720
40 Sheppard Avenue West
Toronto, ON M2N 6K9
CANADA

EXAMINER

BOSWELL, CHRISTOPHER J

ART UNIT

PAPER NUMBER

3676

DATE MAILED: 08/15/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/930,687

Applicant(s)

DEL NIN, LOU F.

Examiner

Christopher Boswell

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: .

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DETAILED ACTION

Specification

Applicant is reminded of the proper content of an abstract of the disclosure.

A patent abstract is a concise statement of the technical disclosure of the patent and should include that which is new in the art to which the invention pertains. If the patent is of a basic nature, the entire technical disclosure may be new in the art, and the abstract should be directed to the entire disclosure. If the patent is in the nature of an improvement in an old apparatus, process, product, or composition, the abstract should include the technical disclosure of the improvement. In certain patents, particularly those for compounds and compositions, wherein the process for making and/or the use thereof are not obvious, the abstract should set forth a process for making and/or use thereof. If the new technical disclosure involves modifications or alternatives, the abstract should mention by way of example the preferred modification or alternative.

The abstract should not refer to purported merits or speculative applications of the invention and should not compare the invention with the prior art.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8 and 11 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S.

Patent Number 5,983,680 to Del Nin.

Del Nin discloses, in combination, a door (10) pivotally mounted, for pivoting about a vertical axis between open and closed positions, in a door opening (18) above a horizontal floor (20), the door having a outer face and an opposed inner face, the door further having a lower edge (60) proximate the floor, and an elongate aperture (38) in the floor adjacent to the door, and

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a security locking device comprising an elongate bolt (34) secured to the door so as to be slidably mounted parallel to one of the faces, the bolt being extendable into a first engaged position wherein an end portion of the bolt (figure 7) extends outwardly of the lower edge of the door and into the elongate aperture in the floor, the bolt being substantially vertical relative the floor (figure 1), locking means (30) preventing withdrawal of the bolt from the aperture while the door is in an open position , and releasing means (36) allowing the bolt to be inserted into, and withdrawn from, the aperture while the door is in a closed position, wherein the bolt is moveable in a lengthwise dimension (figures 6 and 9) of the elongate aperture by pivoting movement of the door, thereby permitting the door to be opened by a predetermined amount with the bolt in the first engaged position, the bolt extends outwardly of the inner face of the door and is secured to the inner face of the door by at least one bracket (40) permitting longitudinal sliding of the bolt therethrough;; the locking means comprises: a plate (36) covering the aperture and having an elongate opening (46), a width of the elongate opening being less than the width of the aperture (figure 2), the end portion of the bolt having a diameter greater than the width of the elongate opening in the plate (50), wherein the end portion is received in the elongate aperture when the bolt is in the first engaged position, and an intermediate portion of the bolt (52) adjacent the end portion having a diameter less than the width of the elongate opening in the plate, at least a portion of the intermediate portion of the bolt (figure 7) being in registry with the elongate opening of the plate when the bolt is in the first engaged position, the releasing means comprises an engaged opening in the plate having a width greater than the width of the elongate opening (figure 2) and greater diameter of the end portion of the bolt, the enlarged opening communicating with the elongate opening of the plate and being positioned so that when the

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door is closed, the end portion of the bolt may be withdrawn from and inserted into said aperture through the enlarged opening in the plate, and wherein a first portion of the aperture, into which the bolt is extendable through the elongate opening in the plate has a depth (figure 11), A second portion of the aperture into which the bolt is extendable through the enlarged opening in the plate has a second depth (figure 11), which is greater than the first depth (figure 8), in the first engaged portion, the bolt extends into the aperture to a first engaged depth less than or equal to the first depth of the aperture, and in a second engaged position, the bolt extends into the second position of the aperture to a second engaged depth greater than the first depth of the aperture, such that, when the bolt is in the first engaged position, the door is openable by a predetermined amount, and when the bolt is in the second engaged position, the door is closed.

Del Nin also discloses the enlarged opening (48) communicates with an end of the elongate opening closest to the door opening (figure 2), and the door having a first vertical edge connected by a hinge (16) to an edge of the door opening, and a second vertical edge remote from the first vertical edge (figure 1), wherein the aperture in the floor is proximate the second vertical edge of the door (figure 6) and where the bolt is raised from the first engaged position and lowered into the first engaged position by a first locking mechanism (30).

Del Nin further discloses the first locking mechanism simultaneously controls a horizontal deadbolt (24) extendable into an aperture in a vertical edge of the door opening, and the first locking mechanism being connected to an upper end of the bolt by a gear mechanism (figure 12). As well as the bolt containing a knob (86) protruding by means of which height and consequent degree of penetration of the bolt through any aperture may be adjusted.

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Del Nin additionally discloses the bolt is raised from the second engaged position to the first engaged position, and lowered from the first engaged position to the second engaged position, by a locking mechanism (30).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 9 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Del Nin, as applied above, in view of U.S. Patent Number 1,203,965 to Bogenberger.

Del Nin discloses, in combination, a door and a security locking device but fails to disclose the one of the gears has a bolthead mounted upon it as well as a latch connected to a bolt for interaction with the bolt head. Bogenberger teaches the use of a bolthead (15) mounted upon a gear mechanism (figure 3) for traveling through an aperture of a latch (14), which is in turn connected to a vertical bolt. Therefore, it would have been obvious to one with ordinary skill in the art at the time the invention was made to further modify the security locking device of Del Nin to include a bolthead working in conjunction with an aperture on a latch to operate the bolt to minimize the size of the lock-box attached to the door for housing the locking mechanism.

Del Nin also discloses the bolt containing a knob (86) protruding through a latch (88), and which arrangement provides means for adjusting height of the bolt and its consequent degree of penetration into any aperture (figures 14 and 15) when the gears are caused to turn.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to further show the state of the art with respect to vertical deadbolts for use in doors:

U.S. Patent Number 4,484,832 to Canepa, U.S. Patent Number 2,787,154 to Wesberry, U.S. Patent Number 1,871,142 to Bianchi et al., U.S. Patent Number 1,111,485 to 485, disclosing the state of the art for vertical dead bolts for use with doors..

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher Boswell whose telephone number is (703) 305-4067. The examiner can normally be reached on 8:30 - 5:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anthony Knight can be reached on (703) 308-3179. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9326 for regular communications and (703) 872-9327 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-2168.

CJB
August 9, 2002


Lloyd A. Gall
Primary Examiner